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L8: Entry 1 of 1

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May 30, 2000

DERWENT-ACC-NO: 1998-388051

DERWENT-WEEK: 200037

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TITLE: Drugs containing peptide(s) with specific affinity to phospholipid(s) -
such as phosphatidyl serine, for treatment of blood coagulation, inflammatory
and immunological disorders

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PATENT-ASSIGNEE:

ASSIGNEE

CODE

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PRIORITY-DATA: 1996JP-0359053 (December 27, 1996)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 10529877 X	May 30, 2000	N/A	000	C07K019/00
WO 9829453 A1	July 9, 1998	J	117	C07K019/00
<u>EP 965597 A1</u>	December 22, 1999	E	000	C07K019/00

DESIGNATED-STATES: CA JP KR US AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT
SE AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 10529877X	January 5, 1998	1998JP-0529877	N/A
JP 10529877X	January 5, 1998	1998WO-JP00002	N/A
JP 10529877X		WO 9829453	Based on
WO 9829453A1	January 5, 1998	1998WO-JP00002	N/A
EP 965597A1	January 5, 1998	1998EP-0900156	N/A
EP 965597A1	January 5, 1998	1998WO-JP00002	N/A
EP 965597A1		WO 9829453	Based on

INT-CL (IPC): A61K 47/48; C07K 14/745; C07K 19/00; C12N 15/12; C12P 21/02; C12P
21/02; C12R 1/91; C12P 21/02; C12R 1/91 ; C12P 21/02; C12R 1/91

ABSTRACTED-PUB-NO: WO 9829453A

BASIC-ABSTRACT:

Drug compositions contain as active component a peptide which has specific
affinity to particular phospholipids (such as phosphatidyl ethanolamine or
phosphatidyl serine), especially to phospholipids which constitute a lipid
bilayer of cellular cortex and of which the concentration in the bilayer
increases in cells which are abnormal (e.g. through injury, denaturation or

activation).

In particular, the peptide contains a sequence having phospholipid affinity and a structure of formula (I).

(A1)a-(A2)b-(A3)c (I)

(A1) is one of two specific (130 and 30 amino acid) sequences given in the specification;

(A2) and (A3) are TRYLRHPQSWVHQIALR (II), LRYLRHPQSWVHQIALR or MEVLGCEAQNLY (III);

a = 0-5;

b = 1-5, and

c = 0-5.

Preferred are the formulae A1-A2-A3, A2-A3, A2-A2-A3, A2-A2-A2-A3 or A2-A2 (especially A2-A2-A3, A2-A2-A2-A3 or A2-A2).

The sequence is linked to a peptide such as a blood factor, especially thrombo-modulin, urina-statin or membrane cofactor protein.

Also claimed are:

(1) peptides of sequence (I), and

(2) DNAs encoding these peptides or encoding peptides with phospholipid affinity which incorporate them as part of the sequence.

USE - The drugs are used for the treatment and prevention of diseases involving blood coagulation, inflammatory and immunological disorders.

CHOSEN-DRAWING: Dwg.0/22

TITLE-TERMS: DRUG CONTAIN PEPTIDE SPECIFIC AFFINITY PHOSPHOLIPID PHOSPHATIDYL SERINE TREAT BLOOD COAGULATE INFLAMMATION IMMUNOLOGICAL DISORDER

DERWENT-CLASS: B04 D16

CPI-CODES: B04-B01B; B04-C01D; B04-E02F; B04-E08; B05-B01P; B14-C03; B14-F04; D05-H12A; D05-H12E; D05-H17A;

CHEMICAL-CODES:

Chemical Indexing M1 *01*

Fragmentation Code

M423 M710 M903 Q233 V753

Chemical Indexing M1 *02*

Fragmentation Code

D011 D601 F012 F014 F423 F521 G013 G100 H1 H100
H181 H4 H401 H441 H481 H8 JO J011 J012 J1
J111 J171 J3 J371 K0 L2 L250 M280 M312 M313
M314 M315 M320 M321 M331 M332 M333 M340 M342 M343
M349 M371 M381 M391 M423 M510 M511 M520 M521 M530
M531 M540 M620 M781 M903 M904 P420 P433 P434 P812
P813 Q233 V752 V901 V902 V914 V915 V916 V917 V921
Markush Compounds
199833-42601-N

Chemical Indexing M1 *03*

Fragmentation Code

G013 G100 H1 H100 H181 H4 H401 H441 H498 H5
H598 H8 H9 J0 J011 J012 J1 J171 J172 J3
J371 M210 M211 M271 M280 M281 M311 M312 M313 M314
M315 M321 M331 M332 M333 M340 M342 M343 M349 M371
M381 M391 M423 M510 M520 M530 M531 M540 M620 M781
M903 M904 P420 P433 P434 P812 P813 Q233 V752 V901
V902 V913 V914 V915 V916 V917 V921
Markush Compounds
199833-42602-N

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1998-117457